



SARCCUP

SARCCUP Project Updates

SAWPA Member Agencies & SAWPA

PA 23 Committee | October 6, 2020

Item No. 4.A.



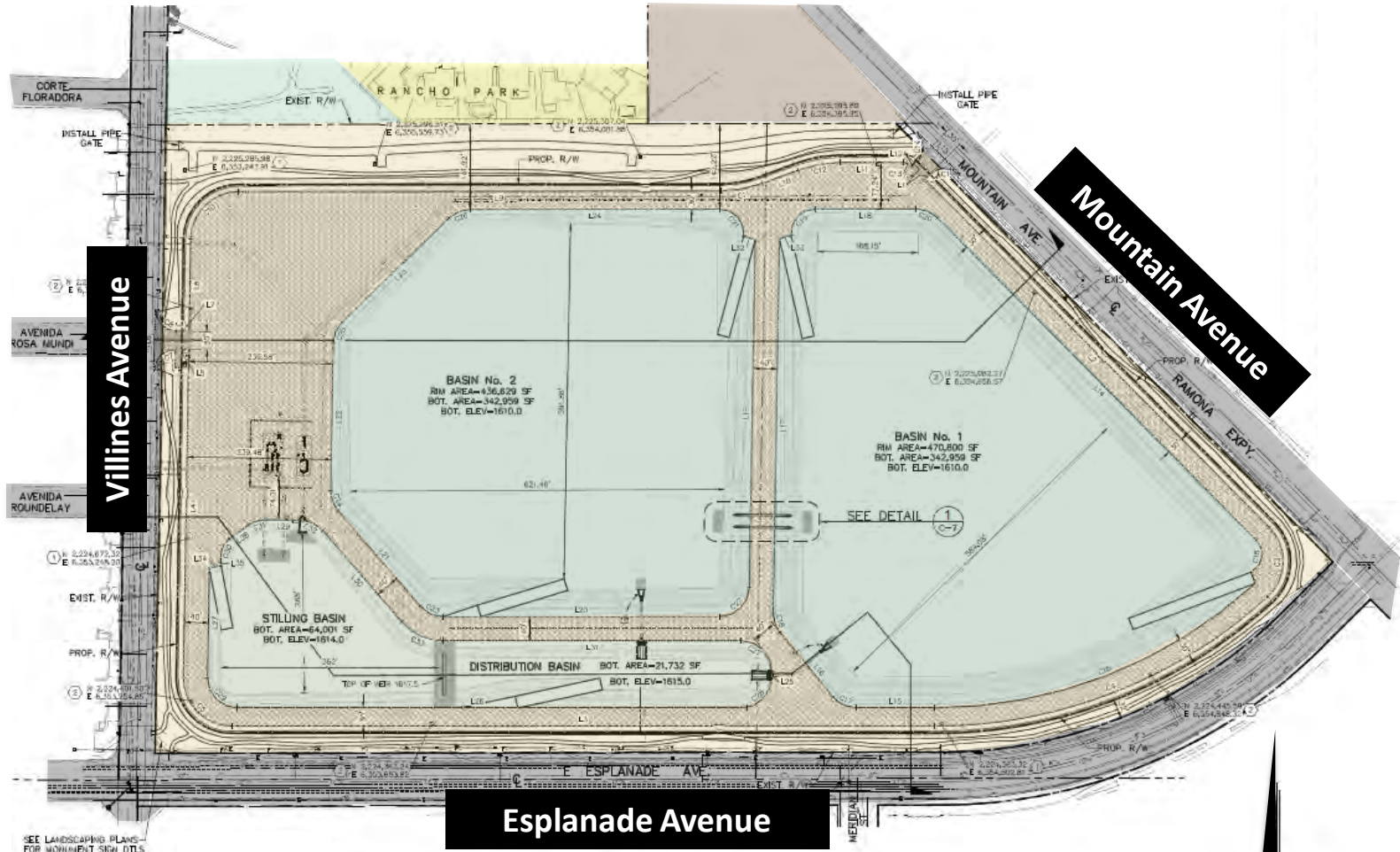


EMWD Updates

Mountain Avenue West Recharge Facility

October 2020

EMWD Project Update – Mountain Avenue West



Mountain Avenue West Recharge Facility Schematic

Estimated
Construction
Completion is
February 2021



Recharge Basin Construction

Estimated
Construction
Completion is
February 2021



Drilling
Discharge

Drill Rig

Sound Wall

**Construction of a Monitoring Well at
Mountain Avenue West Recharge Facility**



28-in Conductor
Casing

Installation of the Conductor Casing at
Monitoring Well MP-02 site

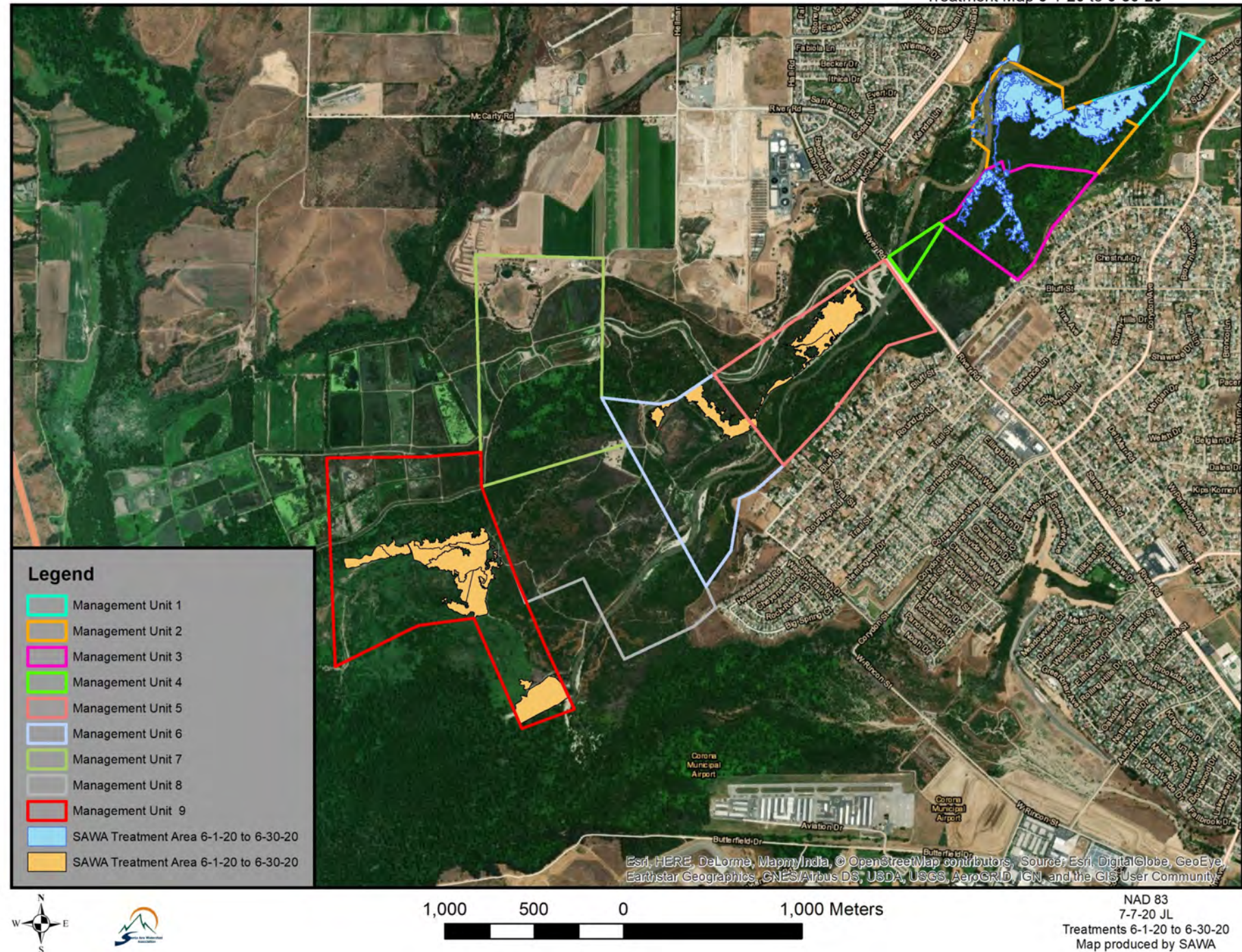
OCWD Updates

Arundo Removal and Orange County
Groundwater Wells

October 2020

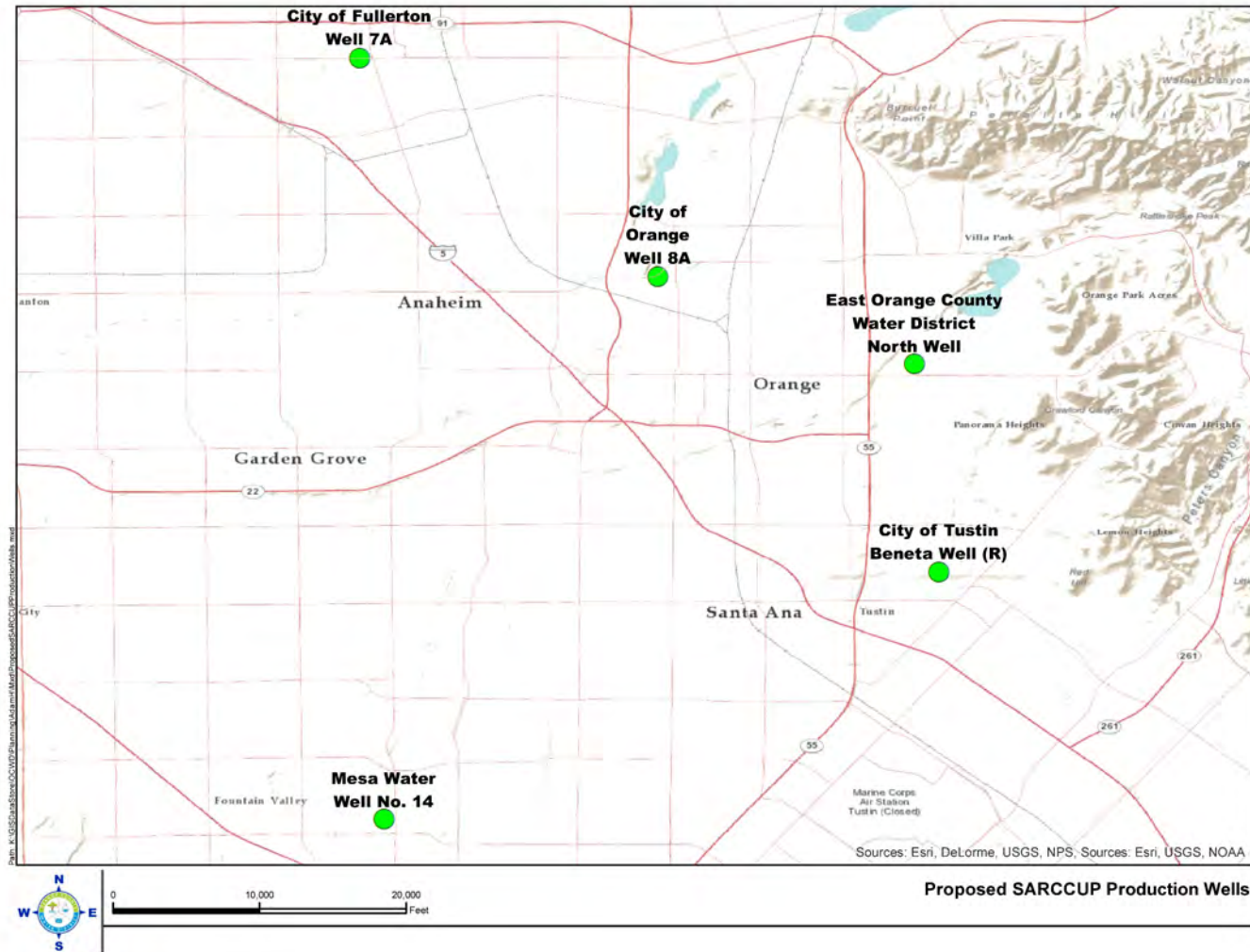
Arundo removal is on-going.

- ▶ A total of 542 acres have been removed.
- ▶ An additional 98 acres is targeted for this fall/winter to reach goal of 640 acres.
- ▶ Maintenance of removal areas will continue for next several years.





Five groundwater producers are proceeding with constructing new wells.



Proposed SARCCUP Production Wells

WMWD Updates

Sterling Pump Station and La Sierra Pipeline
October 2020

Sterling Pump Station



SBVMWD Updates

October 2020



Tributary Restoration Projects

▶ Phased Implementation

- ▶ Phase 1: Hidden Valley and Anza Creeks
 - ▶ 60% Designs
 - ▶ Working through comments on the 60% for Anza
 - ▶ Est. Start of Construction: Fall/Winter 2020
- ▶ Phase 2: Lower Hole and Old Ranch Creeks
 - ▶ 30% Designs
 - ▶ Est. Start of Construction: Fall 2021
- ▶ CEQA
 - ▶ Completed for entire project (i.e. all four sites)
- ▶ Lands Agreements



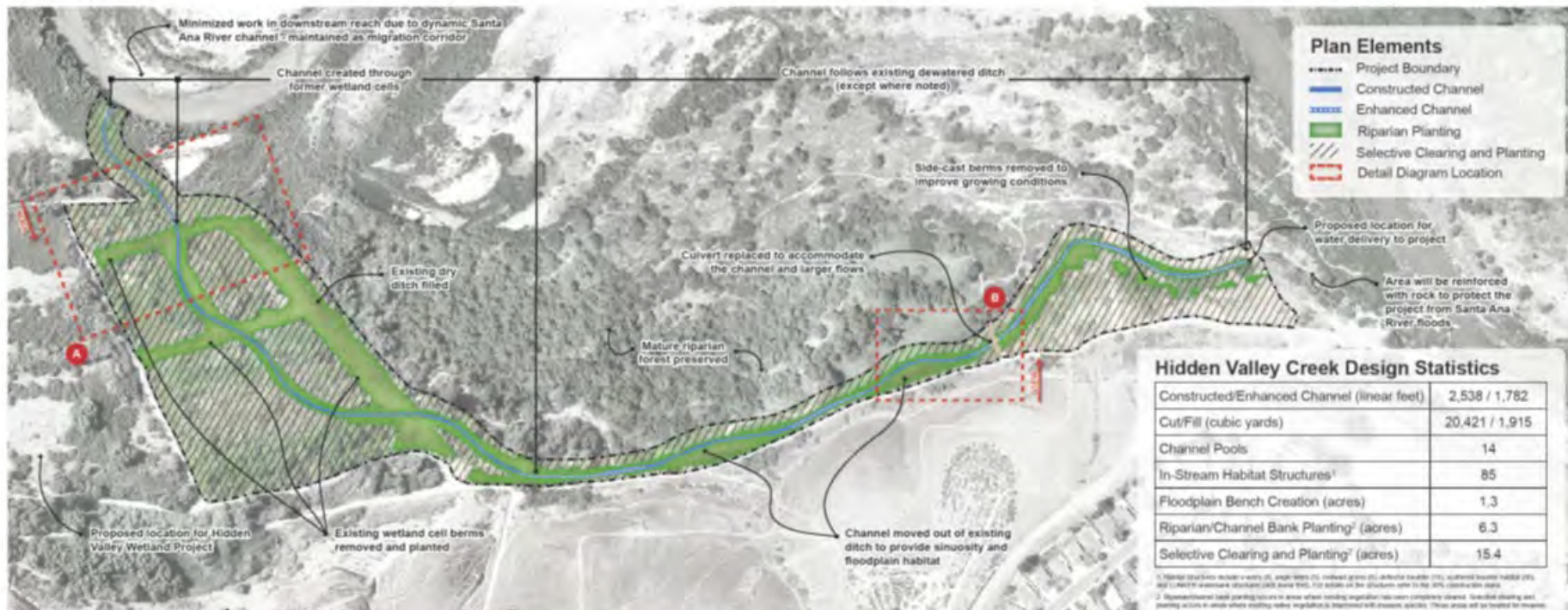
Anza Creek Site in need of restoration (Nov 29, 2018)

▶ Permitting

- ▶ Phase 1 Sites
 - ▶ LSAA (CDFW)
 - ▶ Section 401 Compliance (RWQCB)
 - ▶ Anza: Complete
 - ▶ Hidden Valley: In progress
 - ▶ CWA Section 404 Compliance (USACE)
 - ▶ Section 7 Federal ESA Consultation Initiated with USFWS
- ▶ Phase 2 Sites
 - ▶ After Phase 1 Site permits are obtained



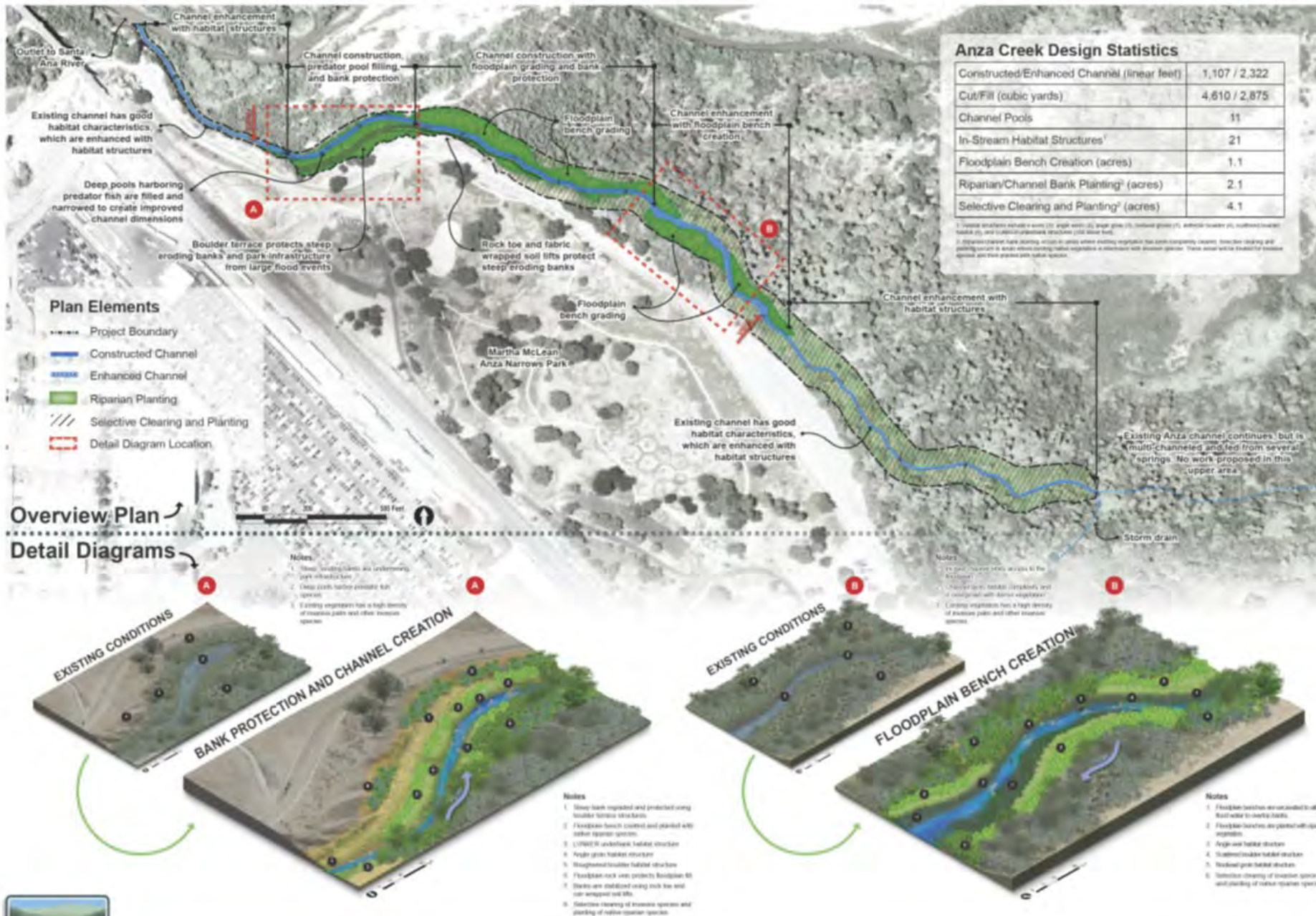
Old Ranch Creek Site after recent fire (Feb 2, 2020)

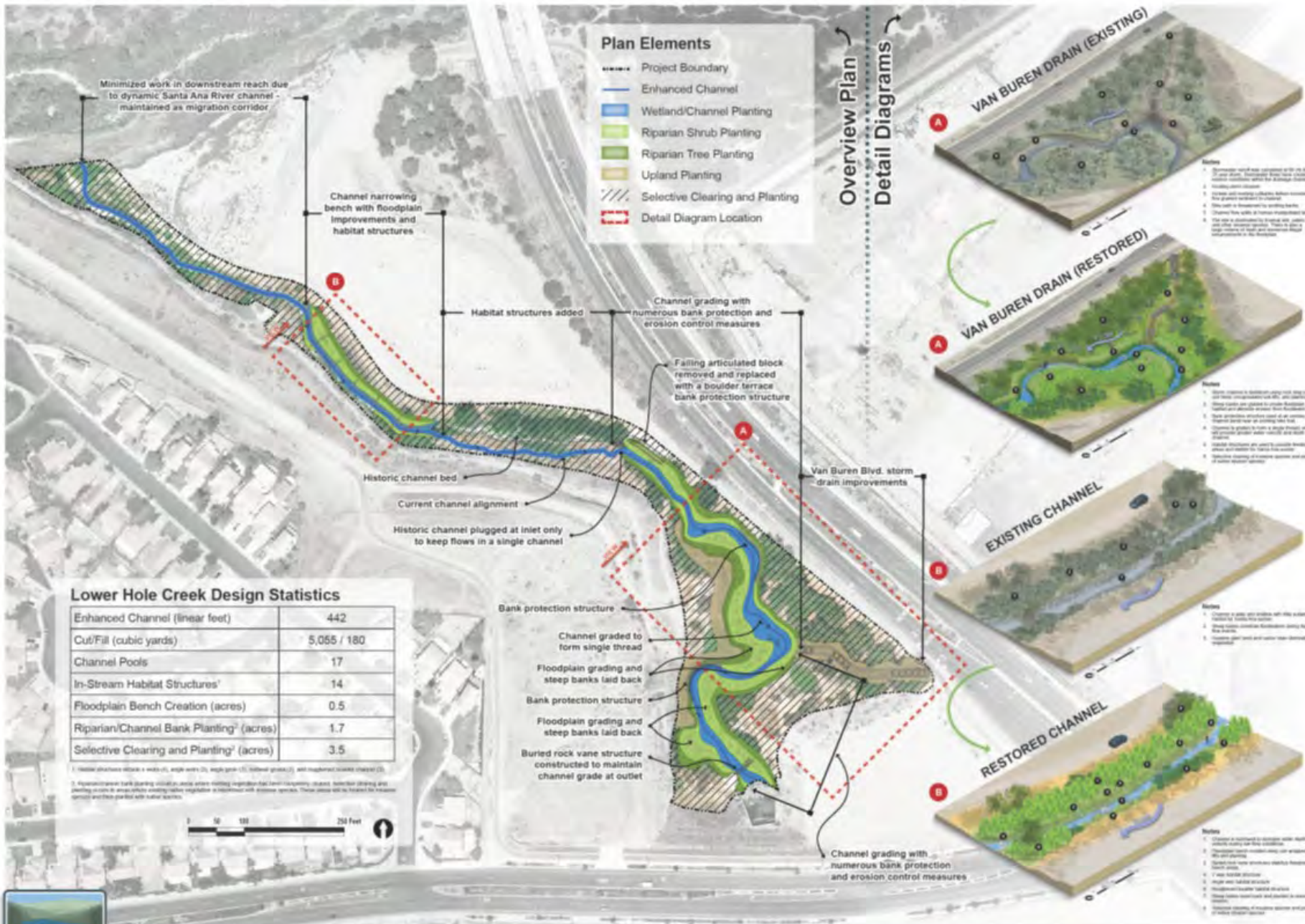


Overview Plan
Detail Diagrams



Hidden Valley Creek Restoration
San Bernardino Valley Municipal Water District





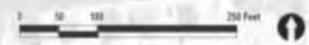
- ### Plan Elements
- Project Boundary
 - Enhanced Channel
 - ▭ Wetland/Channel Planting
 - ▭ Riparian Shrub Planting
 - ▭ Riparian Tree Planting
 - ▭ Upland Planting
 - ▨ Selective Clearing and Planting
 - - - - - Detail Diagram Location

Overview Plan
Detail Diagrams

Lower Hole Creek Design Statistics

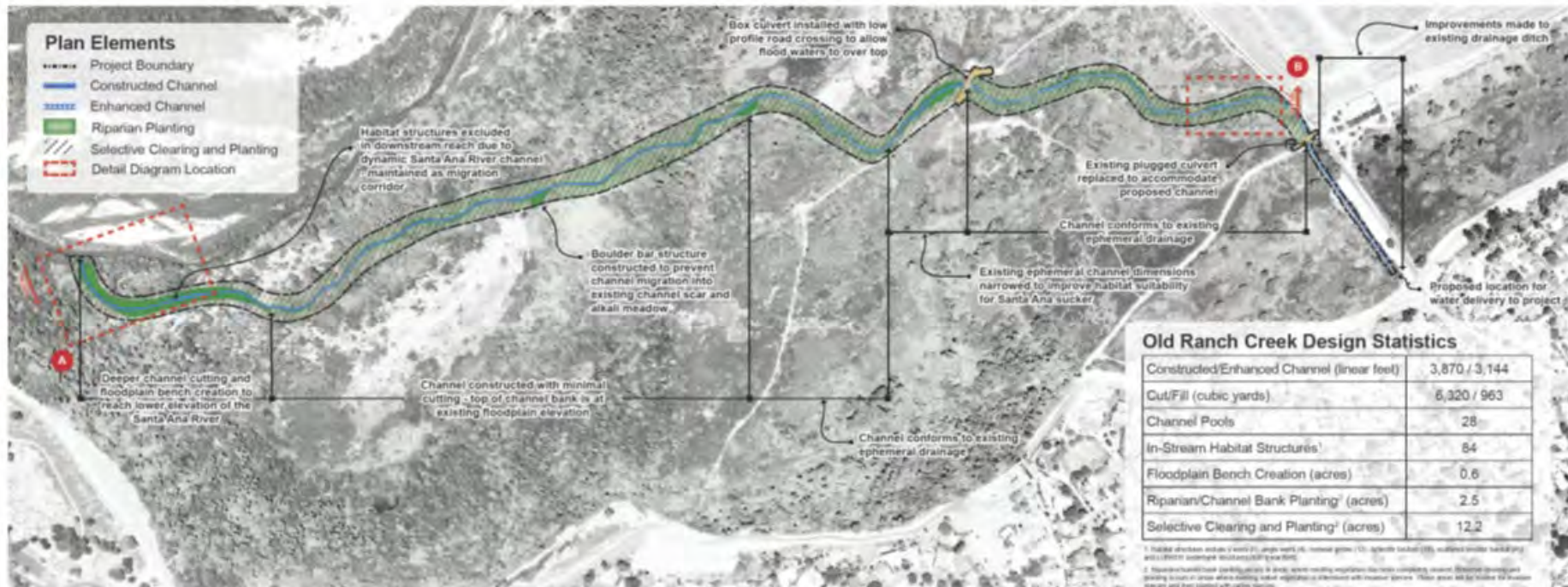
Enhanced Channel (linear feet)	442
Cut/Fill (cubic yards)	5,065 / 180
Channel Pools	17
In-Stream Habitat Structures ¹	14
Floodplain Bench Creation (acres)	0.5
Riparian/Channel Bank Planting ² (acres)	1.7
Selective Clearing and Planting ² (acres)	3.5

¹ Habitat structures include 1 wide weir, 1 single weir, 1 single gate weir, 1 boulder gate weir, and 10 riparian channel crosses.
² Riparian/Channel Bank Planting includes all native riparian vegetation that have historically occurred, including riparian shrubs and plants, as well as areas which contain native vegetation in conjunction with erosion control. These areas will be treated to reduce erosion and improve riparian habitat quality.



Lower Hole Creek Restoration

San Bernardino Valley Municipal Water District



Old Ranch Creek Design Statistics

Constructed/Enhanced Channel (linear feet)	3,870 / 3,144
Cut/Fill (cubic yards)	6,320 / 963
Channel Pools	28
In-Stream Habitat Structures ¹	84
Floodplain Bench Creation (acres)	0.6
Riparian/Channel Bank Planting ² (acres)	2.5
Selective Clearing and Planting ² (acres)	12.2

¹ Habitat structure includes: rock (1), large wood (16), in-stream grass (10), aquatic bedrock (10), riparian habitat (10) and other structure (10) (total 67) (total 84)

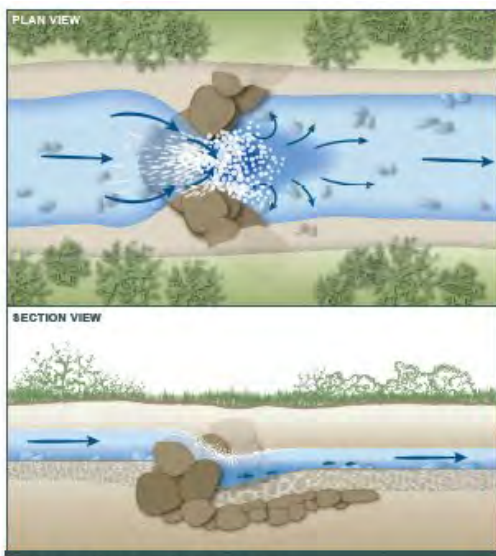
² Riparian/Channel Bank Planting (acres) includes: native riparian tree (1.5), native shrub (1.0), native grass (1.0), native herb (1.0), native sedge (1.0), native fern (1.0), native moss (1.0), native lichen (1.0), native algae (1.0), native fungus (1.0), native invertebrate (1.0), native vertebrate (1.0), native microorganism (1.0), native soil (1.0), native sediment (1.0), native nutrient (1.0), native energy (1.0), native information (1.0), native knowledge (1.0), native wisdom (1.0), native spirit (1.0), native soul (1.0), native heart (1.0), native mind (1.0), native body (1.0), native form (1.0), native matter (1.0), native energy (1.0), native information (1.0), native knowledge (1.0), native wisdom (1.0), native spirit (1.0), native soul (1.0), native heart (1.0), native mind (1.0), native body (1.0), native form (1.0), native matter (1.0)

Overview Plan

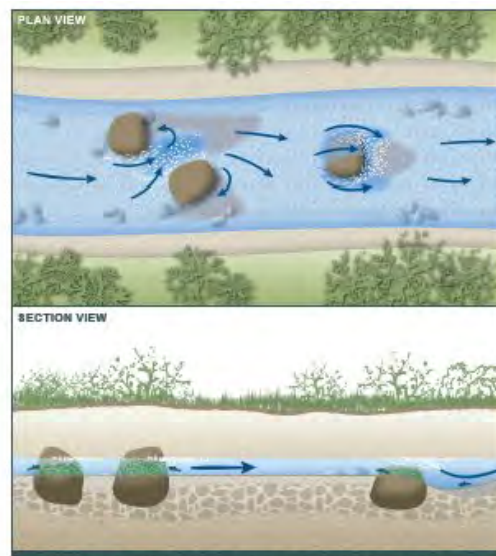
Detail Diagrams



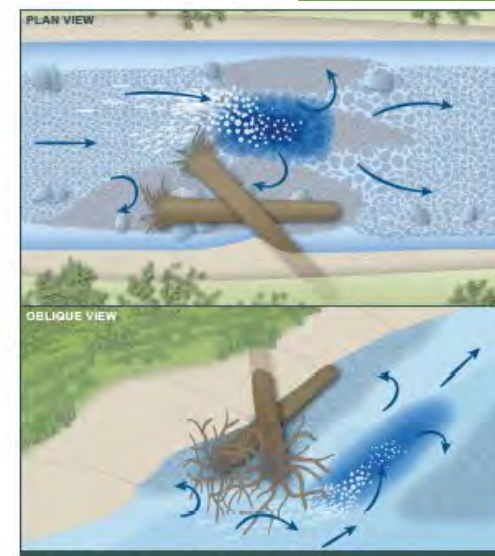
Old Ranch Creek Restoration
San Bernardino Valley Municipal Water District



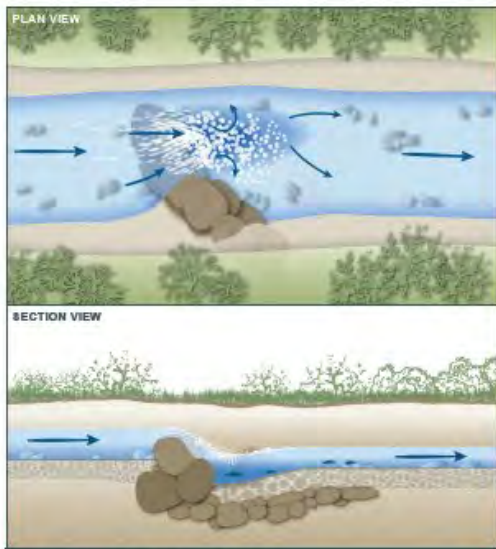
CENTER WEIR PLUNGE POOL



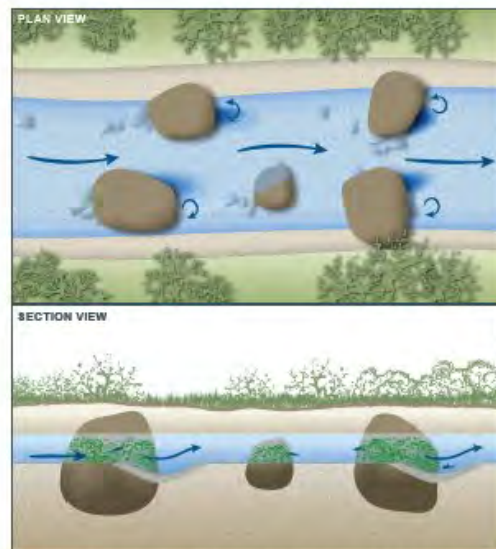
BOULDER-ROUGHENED RIFFLE/RUN HABITAT



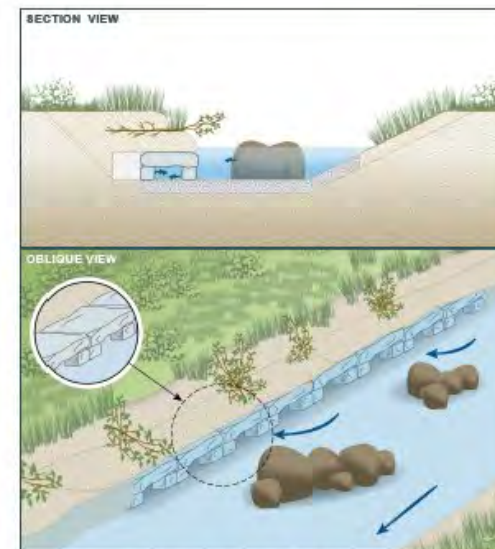
ROOT WAD GROIN SCOUR POOL



ANGLE WEIR PLUNGE POOL



SCATTERED BOULDERS IN SLACKWATER POOLS



LUNKER UNDERBANK HABITAT STRUCTURE



SAWPA Updates

Water Use Efficiency Budget Assistance Task
October 2020

Purpose of Task

1. Use SARCCUP \$1.2 million funding that would have gone to conservation-based rates task*;
2. Help 5 to 10 retail agencies comply with State regulations that require water agencies to adhere to agency-wide water budgets (Senate Bill 606 and Assembly Bill 1668);
3. Provide 5 to 10 retail agencies with budgets to prepare them to eventually study/adopt conservation-based rates; and
4. Provide 5 to 10 retail agencies with information to target other water use efficiency programs to inefficient water users.

SARCCUP
Water Budget
Assistance
Task



*Removed from scope of work via DWR-SAWPA Grant Agreement No. 2

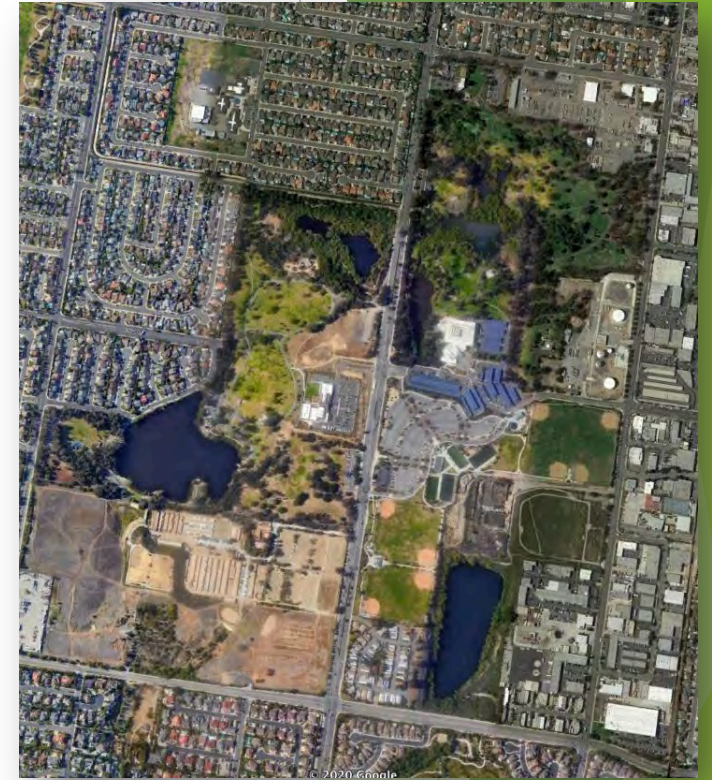
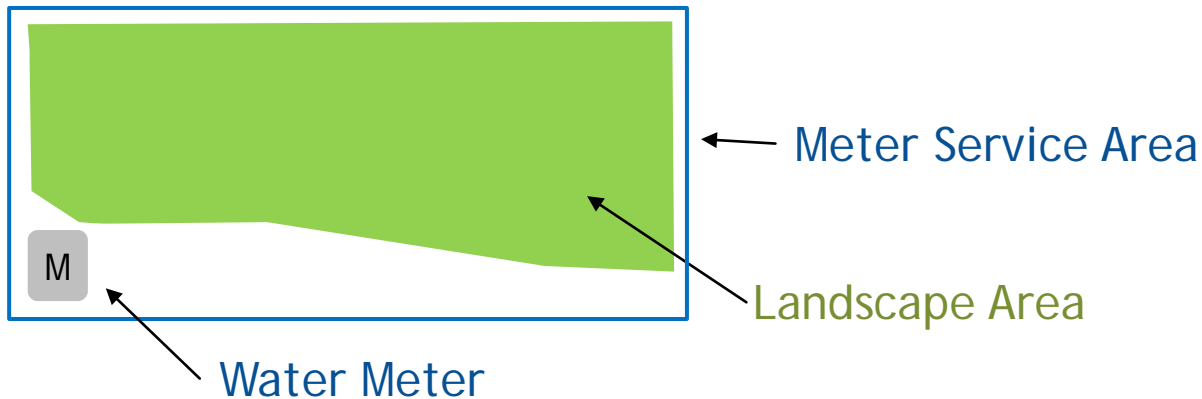
Deliverables for Interested Retailers

Table Format

Customer Identifier	Meter Service Area	Landscape Area
Customer Identifier	Meter Service Area	Landscape Area
Customer Identifier	Meter Service Area	Landscape Area

Can Also Provide Access to Eto* Data to help create holistic efficiency budget

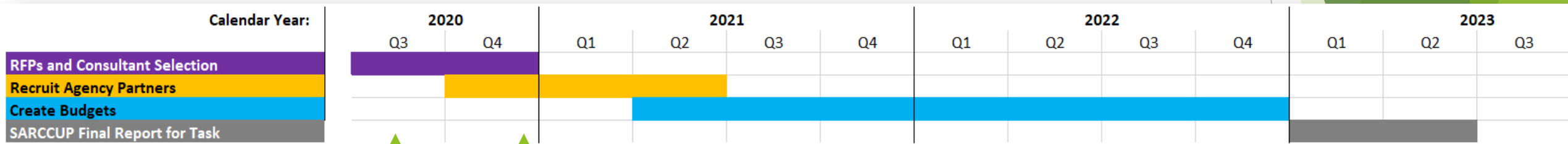
GIS Format



*Eto = Reference Evapotranspiration

Schedule for Work

Task Schedule



Approve RFP and recruitment plan for 5 to 10 agencies

Approve consultant contract to assist with budget creation



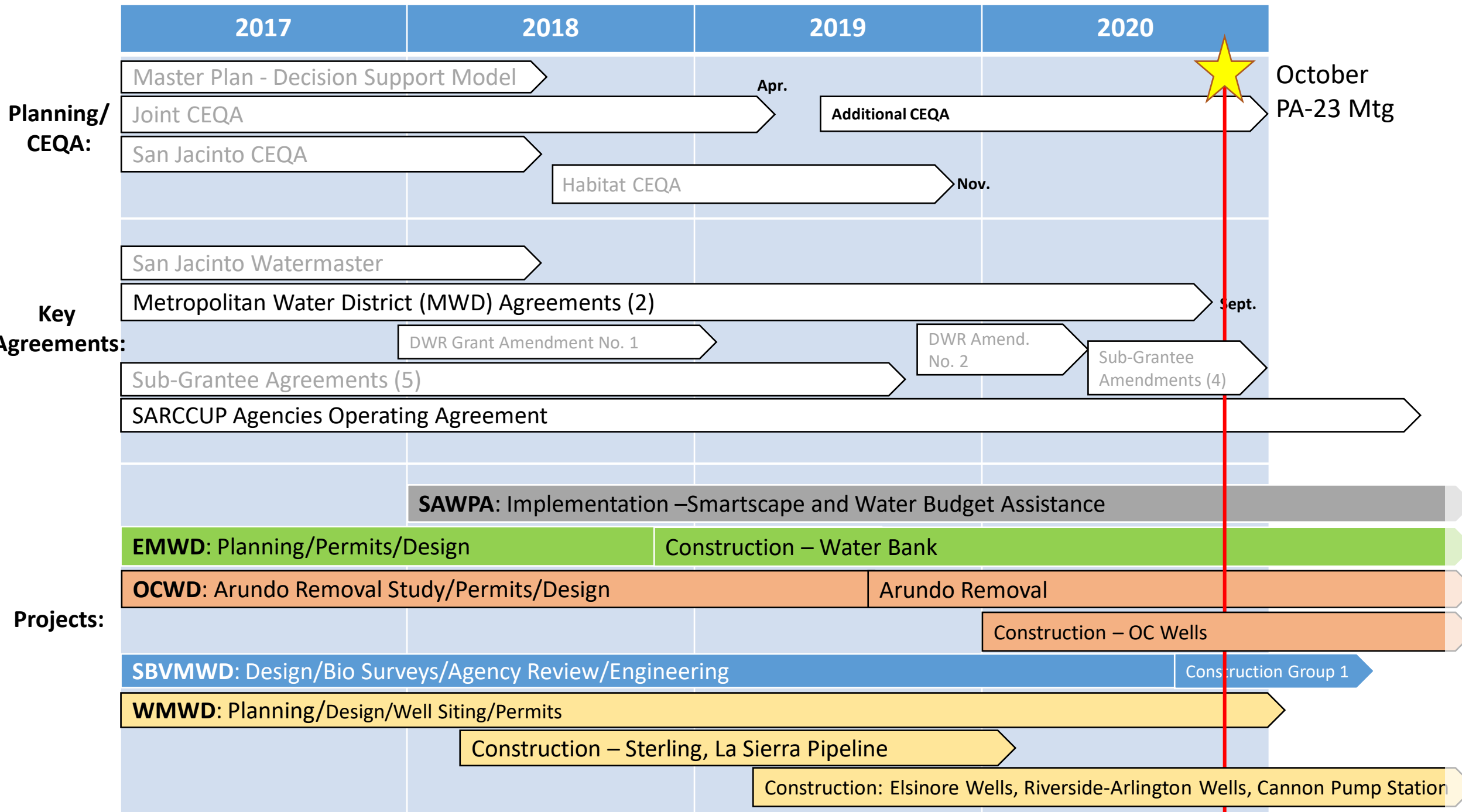
SARCCUP Schedule

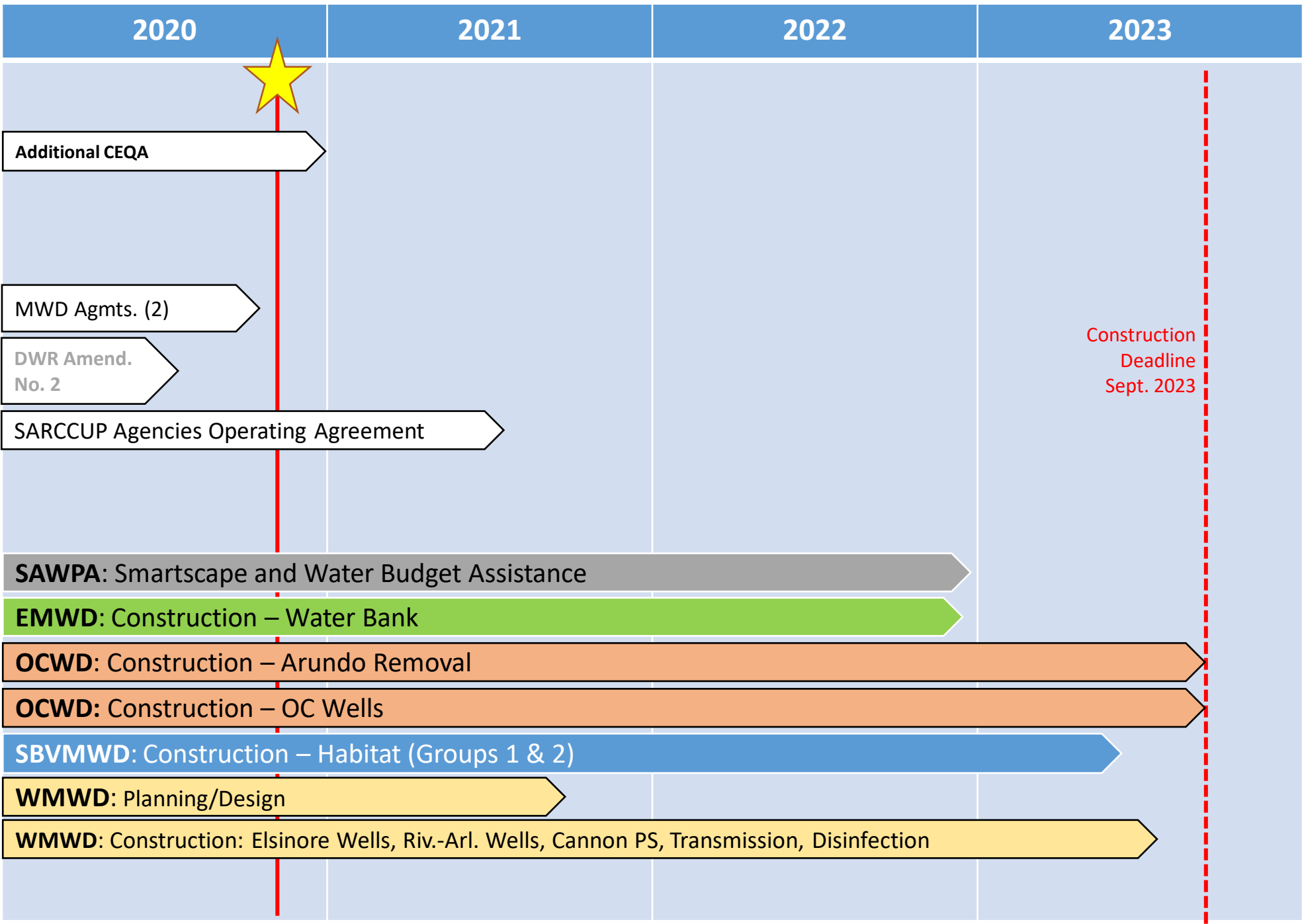
Brian Dietrick, Woodard & Curran

PA 23 Committee | October 6, 2020

Item No. 4.B.







2020

2021

2022

2023

**Planning/
CEQA:**

Additional CEQA



**Key
Agreements:**

MWD Agmts. (2)

DWR Amend.
No. 2

SARCCUP Agencies Operating Agreement

Construction
Deadline
Sept. 2023

Projects:

SAWPA: Smartscape and Water Budget Assistance

EMWD: Construction – Water Bank

OCWD: Construction – Arundo Removal

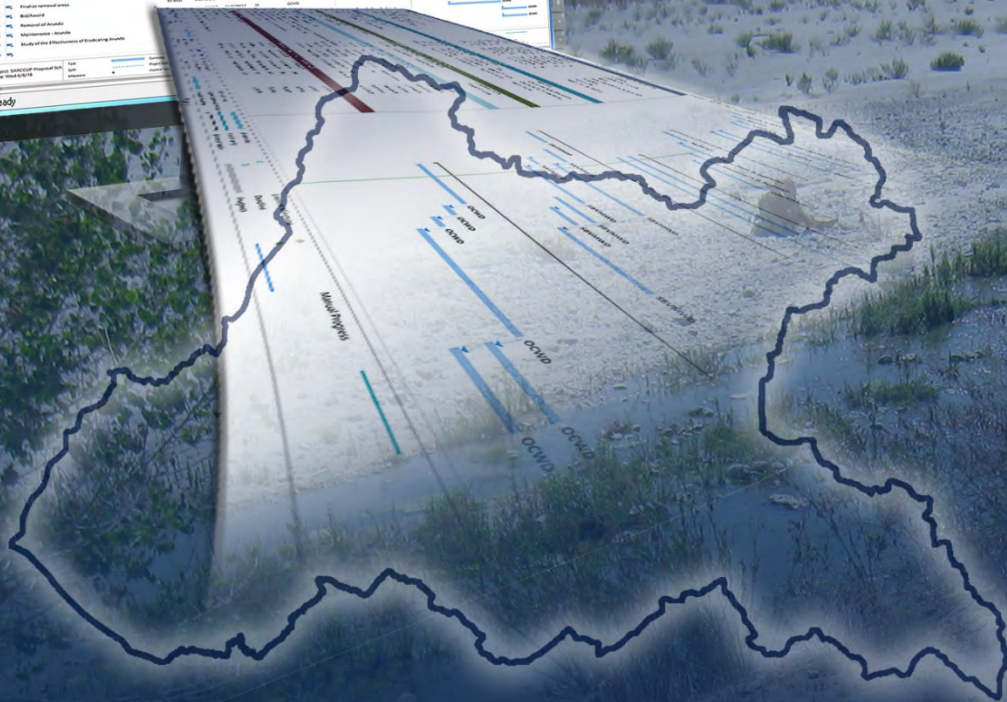
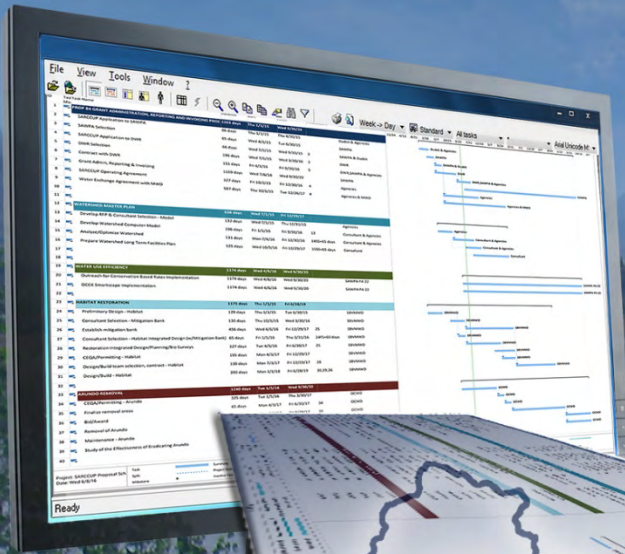
OCWD: Construction – OC Wells

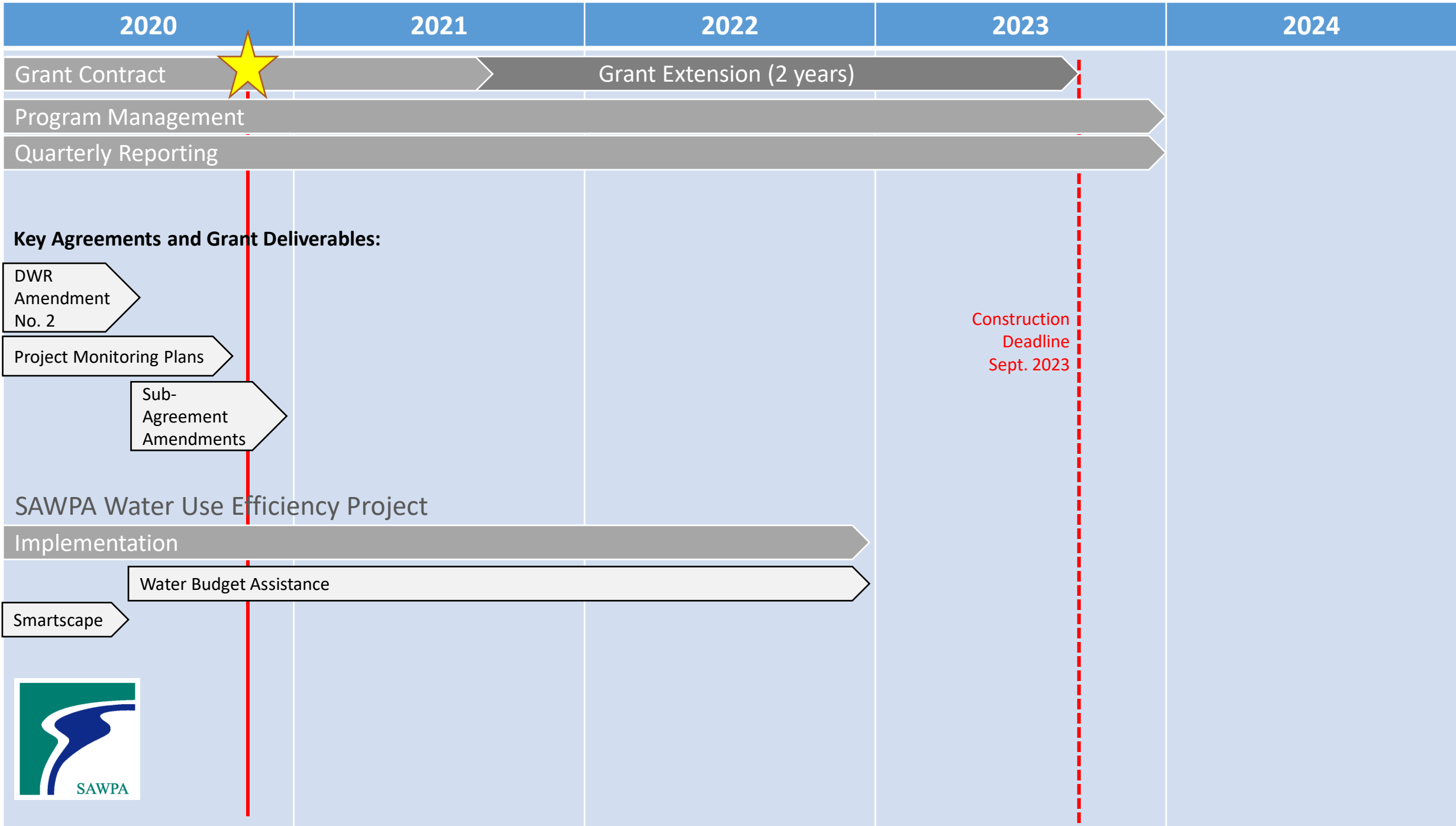
SBVMWD: Construction – Habitat (Groups 1 & 2)

WMWD: Planning/Design

WMWD: Construction: Elsinore Wells, Riv.-Arl. Wells, Cannon PS, Transmission, Disinfection

2020-2023 Agency Slides





DWR
Amendment
No. 2

Project Monitoring Plans

Sub-
Agreement
Amendments

SAWPA Water Use Efficiency Project

Implementation

Water Budget Assistance

Smartscape

Construction
Deadline
Sept. 2023



2020	2021	2022	2023	2024
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Grant Contract → Grant Extension (2 years)

EMWD Conjunctive Use Project

Construction Deadline Sept. 2023

Construction

Mountain Avenue West Recharge Fac.

Well Equipping, Discharge Pipelines, Three Wells



2020	2021	2022	2023	2024
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Grant Contract → Grant Extension (2 years)

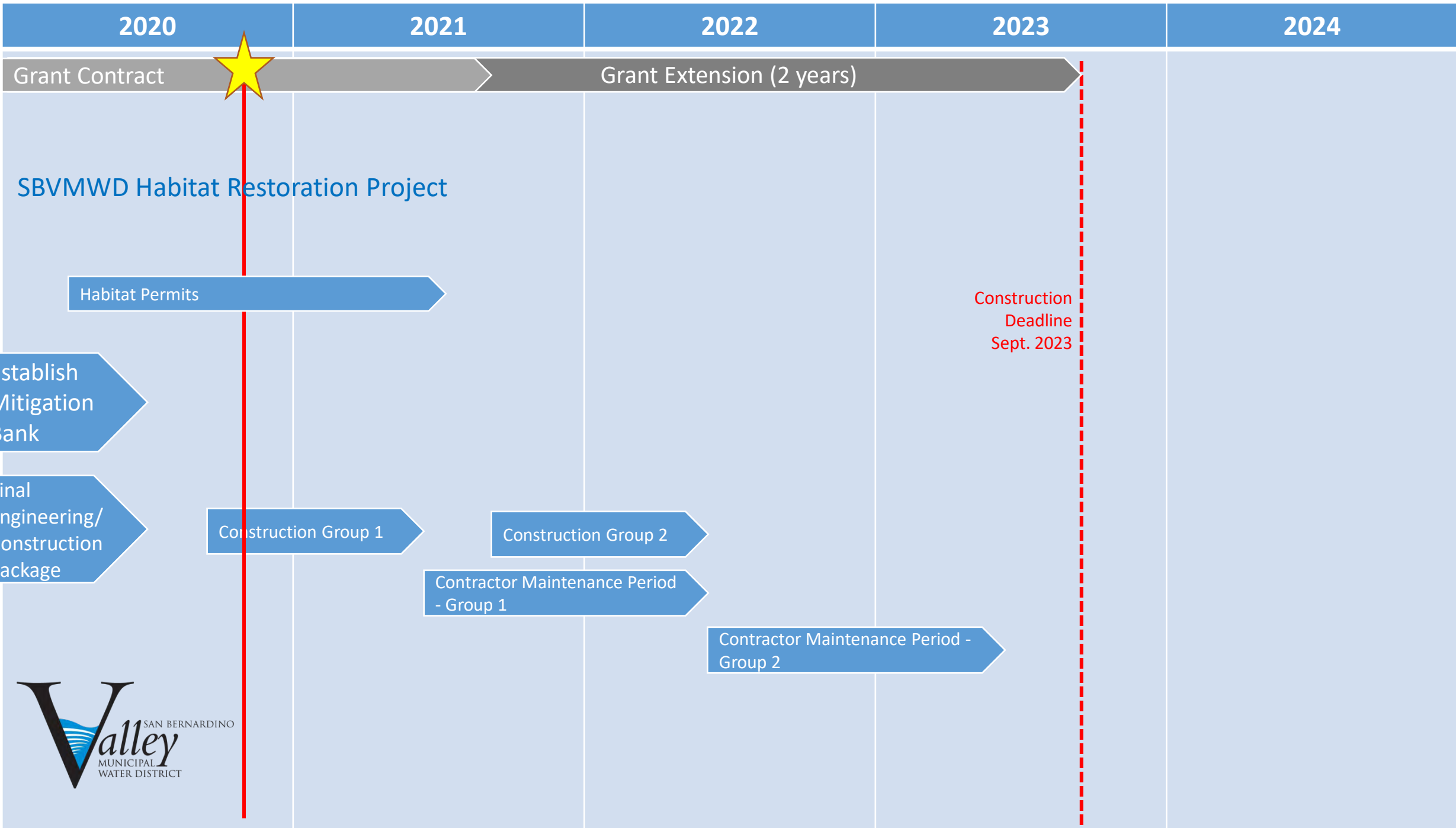
OCWD Arundo Removal Project

Construction
Deadline
Sept. 2023

Construction – Arundo Removal

Construction – OC Wells





2020

2021

2022

2023

2024

Grant Contract

Grant Extension (2 years)

SBVMWD Habitat Restoration Project

Habitat Permits

Establish Mitigation Bank

Final Engineering/Construction Package

Construction Group 1

Construction Group 2

Contractor Maintenance Period - Group 1

Contractor Maintenance Period - Group 2

Construction Deadline
Sept. 2023



2020	2021	2022	2023	2024
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Grant Contract Grant Extension (2 years)

WMWD Conjunctive Use Project

Land Purchase

Design

Elsinore Basin Design

Riverside-Arlington Basin – Wells/Transmission, Cannon Campbell Pump Station & Disinfection

Construction

Elsinore Basin - Well Equipping

Sterling PS

Riverside-Arlington Basin – Wells/Transmission

Riverside-Arlington Basin – Cannon Campbell PS & Disinfection

Construction
Deadline
Sept. 2023





SARCCUP Grant Payment Updates

Ian Achimore, Senior Watershed
Manager

PA 23 Committee | October 6, 2020

Item No. 4.C.



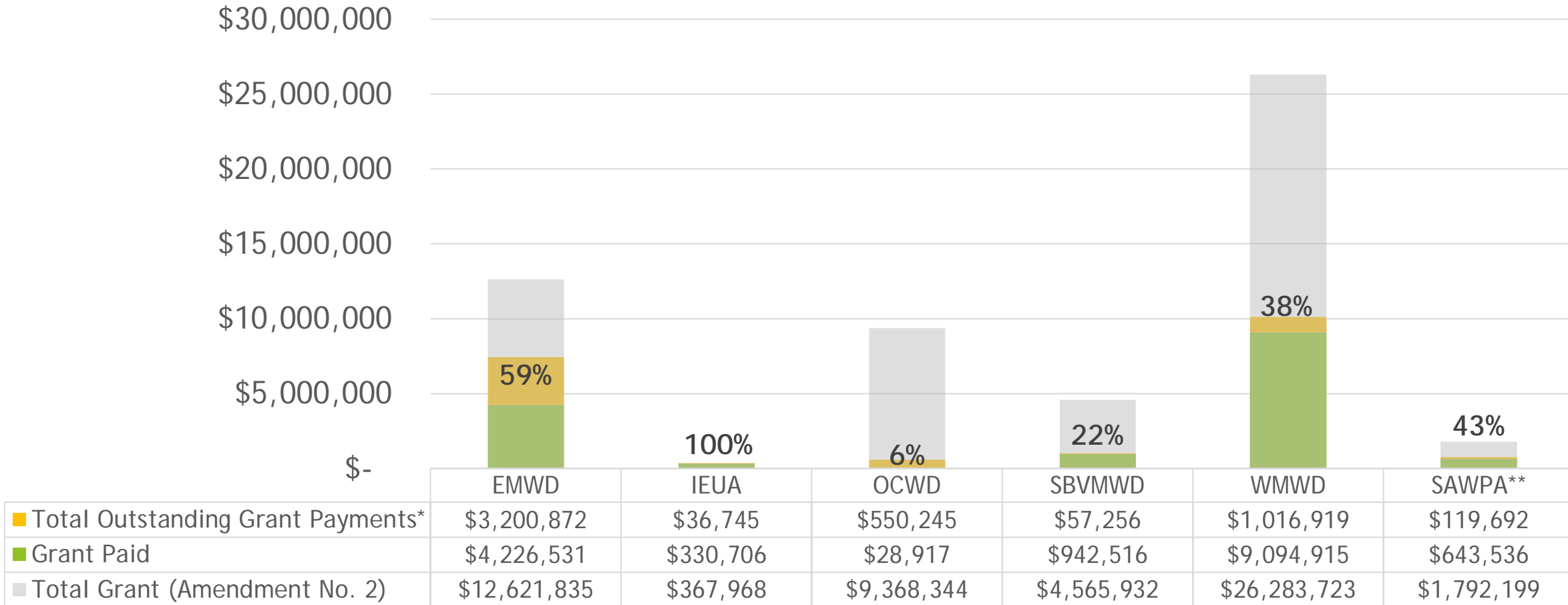
Background on Grant

- ▶ Department of Water Resources adopted grant agreement amendment No. 2 with SAWPA on May 29, 2020.
 - ▶ PA 23 Committee adopted grant amounts (as shown on next slides) at the April 2 and October 1, 2019 Committee meetings, which were incorporated into the amendment with DWR.
- ▶ Amounts shown in this presentation reflect invoices submitted through June 30, 2020.
- ▶ As of June 30, 2020, the amount of grant invoiced is 37% of the total \$55M grant.

Percent Schedule Completed June 30, 2020



Grant Payment Status By SARCCUP Agency (Percent of Total Grant Invoiced Shown)

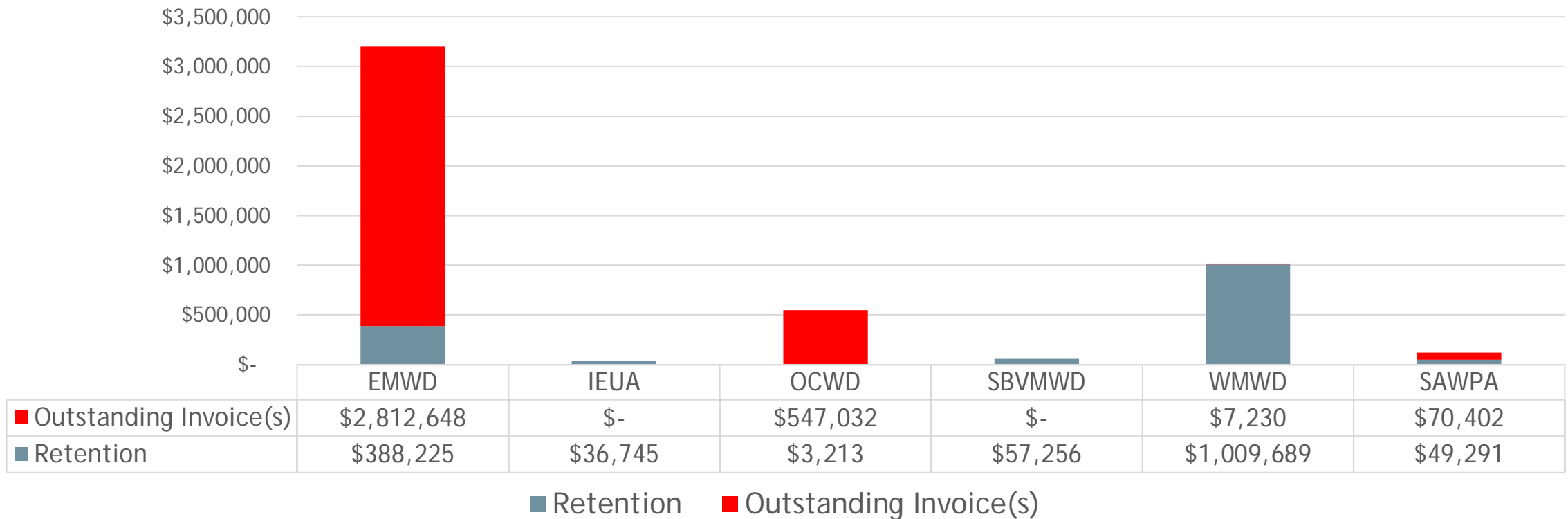


Notes:

*Payment outstanding due to 10% retention withheld on each grant amount included in invoice, or lag in payment from last quarter's invoice.

**Includes funding for Woodard and Curran, Smartscape and Water Budget Assistance.

More Detail on Outstanding Grant Payments (Through June 30, 2020)



Notes:

- Retention will be withheld by DWR until complete invoicing of overall SARCCUP Project (scheduled for December 2023).
- Last paid invoice from DWR was for reimbursing expenses incurred by SARCCUP agencies through December 31, 2019.



SARCCUP-MWD Agreement Update

Brian Powell, P. E.

October 6, 2020

PA-23 Committee Meeting

Item 4.D.

Agenda

- MWD-SARCCUP Agreement Overview
- Status & Next Steps





SARCCUP-MWD Agreement Overview



Purpose of Agreement

- Establish terms and conditions for the purchase, delivery and use of surplus Valley State Water Project (SWP) water pursuant to MWD's Administrative Code
- Describe relationship with SARCCUP Participants
- Document rate for surplus Valley Water and financial arrangements
- Determine processes for water deliveries and exchanges for the "Put" and "Take" scenarios
- Document consistency with MWD's Policy regarding Extraordinary Supply Designation



SARCCUP Participants

SARCCUP Participants:

- Eastern MWD*
- IEUA*
- MWDOC*
- OCWD
- Valley District
- Western MWD*



* MWD Member Agency/Agreement Signatory

Overview of Example of Operational (Put and Take) Scenarios

Example	Put Scenarios	Take Scenarios
I	Direct MWD Delivery	Pump and Use Locally
II	Indirect MWD Delivery	Pump and Use Interagency Conveyance
III	Indirect MWD Delivery	Pump and Use Locally, Offsetting In-Lieu MWD Delivery
IV	Delivery to Valley Bank	Pump and Use Interagency Conveyance

Other SARCCUP Program Key Operational Terms with MWD

- Program water purchases and deliveries consistent with MWD Administrative Code
- Up to 50% of the water purchased may qualify for Extraordinary Supply
 - Extraordinary Supply designation subject to MWD certification
 - Appendix G
- SARCCUP-MWD member agencies cannot purchase water from Valley District
- Recovered banked groundwater will not be introduced into MWD system:
 - In-lieu deliveries or direct interagency conveyance
- Financial reconciliation of MWD purchases and in-lieu deliveries responsibility of SARCCUP agencies
- Agreement remains effective through at least 2035 with a clause to extend at least 5 years





Status & Next Steps

Status & Next Steps

- Presentation made to MWD Member Agency Managers Meeting
 - September 18, 2020
- Approvals to Execute the MWD-SARCCUP Agreement
 - SARCCUP Agencies Board Approvals – Sep/Oct
 - September 16th – EMWD (Approved)
 - September 16th – OCWD (Verbal Update Only)
 - October 21st – IEUA/MWDOC/Western (Pending)
 - MWD Board Approval to Execute the MWD-SARCCUP Agreement
 - MWD Board Information: October 2020
 - MWD Board Action: November 2020





Contact Information

Brian Powell, P.E.

Director of Water Resources and Facilities Planning

(951) 928-3777 Ext. 4278

Email: powellb@emwd.org



Discussion Item D

Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy
General Manager

Metropolitan Water District of Southern California Agreements | Update

Valley District Coordinated Operating Agreement with the
Metropolitan Water District of Southern California

Background

2000 COA

- ▶ Expired in 2016
- ▶ **Stayed litigation**
- ▶ Coordinated use of facilities
- ▶ **Built Foothill Pump Station for Valley District at MWDSC expense**
- ▶ Identify any new projects
- ▶ Sale of Valley District surplus water (**20,000 AFY min**)
 - ▶ 15,000 AF (75%) for EMWD, IEUA, OCWD and WMWD

- ▶ Maximize benefits from Seven Oaks Dam
- ▶ Mutual Aid

2020 COA

- ▶ Does not expire unless SWCs expire

- ▶ Coordinated use of facilities

- ▶ Identify any new projects
- ▶ Sale of Valley District surplus water
 - ▶ First 5,000 to SGPWA
 - ▶ 50% to SARCCUP (EMWD, IEUA, OCWD, WMWD)

- ▶ Supplemental stormwater capture
- ▶ Mutual Aid

Benefits from 2000 COA

Metropolitan

- ▶ Conveyed over 600,000 AF through Foothill Pipeline to fill Diamond Valley Reservoir
- ▶ Purchased 223,500 AF of Valley District surplus water

Valley District

- ▶ Received Foothill Pump Station
- ▶ Used Inland Feeder to bypass Foothill Pipeline while re-routing around San Manuel Casino
- ▶ Received about \$21 million for surplus water sales
- ▶ One-time participation in MWDSC central valley water bank (Kern-Delta)
- ▶ Emergency pipe fabrication agreement

2020 COA Surplus Water Pricing

19

Goal: Price the water so the SARCCUP agencies do not have to pay MWDSC any additional fee through SARCCUP

Price paid to Valley
District(negotiated every 5 years)

Final SWP Allocation	
0 - 20%	\$450
21 - 40%	\$350
41 - 60%	\$250
61 - 100%	\$125

2000 COA
~\$100/AF

Schedule

- ▶ Valley District Board Workshop, 10/1
- ▶ Valley District Board of Directors for Consideration, Today

Board Motion & Roll Call Vote

Staff Recommendation

Approve the Coordinated Operating Agreement with
the Metropolitan Water District of Southern California.



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director